



STIC Search Report

EIC 1700

STIC Database Tracking Number: 137570

TO: Randall Chin
Location: REM 6D55
Art Unit : 1744
November 10, 2004

Case Serial Number: 10/633461

From: Kendra Mellerson
Location: EIC 1700
REM 4B28
Phone: 571-272-2516

Kendra.Mellerson@uspto.gov

Search Notes

No Cases Reported

US 6,503,981

4,926,517

PATNO IS 4926517

DATE: NOVEMBER 10, 2004
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 4926517

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 4926517 , May 22, 1990 , Sweeper, Smith, Keith E. - 1612 S. Combee Rd.,
Lakeland, Florida, United States (US), 33801, 315300 (07)

CORE TERMS: brush, drive, arm, hub, sweeper, hydraulic, cylinder, tube,
mounting, slot ...

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

4926517

<=1> GET 1st DRAWING SHEET OF 3

May 22, 1990

Sweeper

REISSUE: July 31, 2003 - Reissue Application filed Ex. Gp.: 1744; Re. S.N. 10/633,461 (O.G. October 21, 2003)

APPL-NO: 315300 (07)

FILED-DATE: February 24, 1989

GRANTED-DATE: May 22, 1990

CORE TERMS: brush, drive, arm, hub, sweeper, hydraulic, cylinder, tube, mounting, slot ...

4926517 OR 4,926,517

Your search request has found no CASES.

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Current session 10/11/2004

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QUESTEL.ORBIT (TM) 1998

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10/11/04 20*16*16

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Query/Command : FILE PLUSPAT

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Last update of file: 2004/11/03 (YYYY/MM/DD) 2004-44/UP (basic update)

Search statement 1

Query/Command : US4926517/PN

** SS 1: Results 1

Search statement 2

Query/Command : PRT FULL NONSTOP LEGALALL

1/1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US4926517 A 19900522 [US4926517]
TI - (A) Sweeper
PA - (A) SMITH KEITH E (US)
IN - (A) SMITH KEITH E (US)
AP - US31530089 19890224 [1989US-0315300]
PR - US31530089 19890224 [1989US-0315300]
IC - (A) E01H-001/02
EC - E01H-001/05C
PCL - ORIGINAL (O) : 015082000; CROSS-REFERENCE (X) : 015179000
015392000
DT - Basic
CT - US3284830; US3879786; GB3720
STG - (A) United States patent
AB - A sweeper includes a support structure having parallel arms which may be moved apart to allow a brush held between the arms to be replaced. Each of the arms has a hub mounted thereon by a universal joint which provides automatic alignment of the two hubs to provide a single axis of rotation for the brush. One of the hubs is connected to a hydraulic drive motor and includes a plurality of slots, one of which receives a drive lug on the interior of the brush which is preferably of the type having a core of a thin metal tube. A raising and lowering mechanism comprises a parallelogram having a hydraulic cylinder in the center for controlling the configuration of the parallelogram. As the brush is raised its support mechanism remains parallel to the vehicle and moves closer to it. A unique stop element is mounted to the hydraulic cylinder to provide a minimum height for the sweeper.

1/1 LGST - ©EPO

PN - US4926517 A 19900522 [US4926517]
AP - US31530089 19890224 [1989US-0315300]
ACT - 20031021 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030731
UP - 2003-44

1/1 CRXX - ©CLAIMS/RRX

PN - 4,926,517 A 19900522 [US4926517]
PA - Smith, Keith E
ACT - 20030731 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031021
REISSUE REQUEST NUMBER: 10/633461
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1744

Reissue Patent Number:

Search statement 2

Query/Command : FILE INPADOC

PLUSPAT - Time in minutes : 0,46

The cost estimation below is based on Questel's standard price list

Records displayed and billed	Estimated cost :	1.11 USD
	:	1
Cost estimated for the last database search	Estimated cost :	1.32 USD
Estimated total session cost	:	2.43 USD
	:	3.03 USD

LGST - Time in minutes : 0,11

The cost estimation below is based on Questel's standard price list

Records displayed and billed	Estimated cost :	0.13 USD
	:	1
Legal-Status informations	Estimated cost :	0.60 USD
	:	1
Cost estimated for the last database search	Estimated cost :	0.50 USD
Estimated total session cost	:	1.23 USD
	:	4.26 USD

CRXX - Time in minutes : 0,16

The cost estimation below is based on Questel's standard price list

Records displayed and billed	Estimated cost :	0.29 USD
	:	1
Legal-Status informations	Estimated cost :	5.50 USD
	:	1
Cost estimated for the last database search	Estimated cost :	0.50 USD
Estimated total session cost	:	6.29 USD
	:	10.55 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's standard price list

Cost estimated for the last database search	Estimated cost :	0.02 USD
Estimated total session cost	:	0.02 USD
	:	10.57 USD

Selected file: INPADOC

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For information on content, (...) INFO INPD.

Search statement 1

Query/Command : FAM US4926517/PN

1 Patent Groups

** SS 1: Results 2

Search statement 2

Query/Command : FAMSTATE NONSTOP

1/2 INPADOC - ©INPADOC

PN - CA 1334886 A1 19950328 [CA1334886]
TI - SWEEPER
LA - ENG
IN - SMITH KEITH E [US]
PA - SMITH KEITH E [US]
AP - CA 613419/89-A 19890927 [1989CA-0613419]
PR - US 315300/89-A 19890224 [1989US-0315300]
IC - E01H-001/00

1/1 LEGALI - ©EPO

PN - CA1334886 C 19950328 [CA1334886]
AP - CA613419 19890927 [1989CA-0613419]
ACTE - 20030403 CA/MKLA-A [-]
LAPSED
EFFECTIVE DATE: 20000328
UP - 2004-11

2/2 INPADOC - ©INPADOC

PN - US 4926517 A 19900522 [US4926517]
TI - SWEEPER
IN - SMITH KEITH E [US]
PA - SMITH KEITH E [US]
AP - US 315300/89-A 19890224 [1989US-0315300]
PR - US 315300/89-A 19890224 [1989US-0315300]
IC - E01H-001/02

1/1 LEGALI - ©EPO

PN - US4926517 A 19900522 [US4926517]
AP - US31530089 19890224 [1989US-0315300]

ACTE - 20031021 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030731
UP - 2003-44

Search statement 2